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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/533,809	05/05/2005	Richard Hercek	271135US0PCT	4302
OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER	
			SACKEY, EBENEZER O	
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			1624	
			NOTIFICATION DATE	DELIVERY MODE
			04/18/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)	
	10/533,809	HERCEK ET AL.	
Office Action Summary	Examiner	Art Unit	
	EBENEZER SACKEY	1624	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be ti od will apply and will expire SIX (6) MONTHS from tute, cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 24 2a) This action is FINAL . 2b) ▼ This action is application is in condition for allow closed in accordance with the practice under the condition is in condition.	nis action is non-final. vance except for formal matters, pr		
Disposition of Claims			
4) Claim(s) 1-7 is/are pending in the application 4a) Of the above claim(s) is/are withd 5) Claim(s) is/are allowed. 6) Claim(s) 1-7 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and Application Papers 9) The specification is objected to by the Exami 10) The drawing(s) filed on is/are: a) are	rawn from consideration. I/or election requirement. ner.	Examiner.	
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction. The oath or declaration is objected to by the	ection is required if the drawing(s) is of	pjected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received. ents have been received in Applicationity documents have been receive eau (PCT Rule 17.2(a)).	tion No red in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 05/05/05.	4) Interview Summary Paper No(s)/Mail E 5) Notice of Informal 6) Other:	oate	

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DETAILED ACTION

Status of the Claims

Claims 1-7 are pending.

Specification

The specification has not been checked to the extent necessary to determine the

presence of all possible minor errors. Applicant's cooperation is requested in correcting

any errors of which applicant may become aware in the specification.

This application currently names joint inventors. In considering patentability of

the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of

the various claims was commonly owned at the time any inventions covered therein

were made absent any evidence to the contrary. Applicant is advised of the obligation

under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

not commonly owned at the time a later invention was made in order for the examiner to

consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g)

prior art under 35 U.S.C. 103(a).

Information Disclosure Statement

Receipt of the Information Disclosure Statement filed on 05/05/05/ is acknowledged and

has been entered into the file. A signed copy of the 1449 is attached herewith.

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Claim Rejections - 35 U.S.C. § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. The factual inquiries set forth in Graham v. John Deere Co., 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. Claims 1-7 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Wiedemann et al., (U.S.Patent number 4,503,067).

Applicants claim a method for preparing Carvedilol, which comprises reacting to 4-(oxirane-2-ylmethoxy)-9Hcarbazole with a salt of 2-(2-methoxyphneoxy)-ethylamine in a specific ratio of the starting materials in the presence of a base in an alcohol solvent.

Determination of the scope and content of the prior art (MPEP §2141.01)

Wiedemann et al., teach a process for preparing Carvedilol which comprises reacting 4-(2, 3-epoxypropoxy)-carbazole with 2-(2-methoxyphenoxy)-ethylamine in the presence of ethylene glycol dimethyl ether in an alcohol solvent. See the entire reference especially column 5, Example 2 and column 6, Example 3.

Ascertainment of the difference between the prior art and the claims (MPEP §2141.02)

The difference between the current process and that of Wiedemann et al., resides in the base employed in the process (claims 1 and 3). The instant process requires the use of an alkali metal or alkaline earth metal carbonate in C_{2-5} alcohols, whereas Wiedemann teaches the use of ethylene glycol dimethyl ether. However, the use of various solvents in organic chemistry to effect the rate of reaction and reactivity is well-known. Note the broad use of organic solvents in column 4, line 25. Thus, the current process is considered non-inventive. It is noted that claims 1 and 7 are drawn to the use of specific ratios of reactants which is not taught in the reference, however, the use of specific ratios are well within the purview of the skilled artisan. Note the process limitations of claim 5 and 6 that is wherein reaction mixtures are cooled, filtered and recrystallized in Example 2, 3 to obtain the crude product. Also note the use of ethyl acetate (claim 7) in Example 4, line 51, and C_3 alcohol i.e., isopropanol (claim 2) in Example 4f. Note the wide range of temperatures taught for this process which ranges from ambient temperature to $147^{\circ}C$.

Hence, the claimed ratios, concentrations and temperatures are an obvious modification available to one of ordinary skill in the art. These are merely optimization of variables, which are not patentable absent unexpected result due to these variables, and which difference may be a difference in kind, and not merely in degree from that of the prior

art. In re Aller, 105 USPQ 233, (1955). Also see In re Boesch, 205 USPQ, 215, (1980).

Finding of prima facie obviousness---rational and motivation (MPEP §2142-2143)

Thus, at the time of filing this application, one of ordinary skill in the art would be motivated to substitute one solvent for another, in the instance, alkali or alkaline earth metal carbonate as claimed herein for ethylene glycol dimethyl ether since the substitution of the solvents does not affect the outcome of the compound prepared by the process because the same reactants are being used by the current invention and the prior art. Hence, instantly claimed process would therefore have been suggested to one of ordinary skill in the art absent a showing of unexpected results and/or properties.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to E. Sackey whose telephone number is (571) 272-0704.

The examiner can normally be reached on Monday-Friday from 7:30 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James O. Wilson, can be reached on (571) 272-0661. The fax phone number for this Group is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-1600.

EOS

/James O. Wilson/ Supervisory Patent Examiner, Art Unit 1624